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State of South Carolina

SEVENTH ANNUAL REPORT

of the

State Board of
Engineering Examiners

to the

GOVERNOR

1929



For Year Ending June 30, 1929

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SEVENTH ANNUAL REPORT

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State Board of
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For Year Ending June 30, 1929

Letter of Transmittal

COLUMBIA, S. C., August 1, 1929.

*To His Excellency, HON. JOHN G. RICHARDS,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Section 6, of an Act providing for the creation of a State Board of Engineering Examiners and regulating the practice of Engineering in the State of South Carolina, we have the honor to transmit this Seventh Annual Report of the activities of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with the Act.

The Board desires to express its appreciation of the cooperation and assistance received from State officers.

Respectfully submitted,

L. S. LETELLIER, *Chairman,*
T. KEITH LEGARÉ, *Secretary.*

Personnel of South Carolina State Board of Engineering Examiners

- L. S. LeTELLIER, *Chairman*, Charleston,
Professor of Civil Engineering, The Citadel,
Member, Society for Promotion of Engineering Education,
Associate Member, American Society of Mechanical Engineers.
- G. E. SHAND, *Vice-Chairman*, Columbia.
President, Shand Engineering & Sales Company,
Member, American Society of Civil Engineers.
- T. KEITH LEGARÉ, *Secretary*, Columbia,
Vice-Pres. and Sales Engr., Carolina Concrete Pipe Co.,
Sec.-Treas., Nat. Council State Boards of Engineering Examiners.
Member, American Society of Civil Engineers,
Member, American Society of Municipal Improvements.
- GEORGE WRIGLEY, Greenville,
In Charge Electrical Dept., J. E. Sirrine & Co., Engineers,
Member, American Institute of Electrical Engineers,
Member, National Electric Light Association.
- W. S. TOMLINSON, Columbia,
City Engineer, City of Columbia,
President, Tomlinson Engineering Company,
Member, American Society for Municipal Improvements.

REPORT

of the

State Board of Engineering Examiners

ACTIVITIES OF THE BOARD

The regular meetings of the Board were held in Columbia on July 10 and December 4, 1928, and applications for registration were considered and examinations conducted. Seven engineers and three land surveyors were approved by the Board for registration and one National Reciprocity Certificate was granted. Of registrations revoked for non-payment of renewal fee, five were reinstated.

In notices sent all registrants on June 1, 1929, the Board urged and requested their cooperation in the enforcement of the engineering registration law, and has mailed letters to city and county officials and other employers of engineers calling their attention to the provisions of this law. It is the desire of the Board to bring to the attention of all engineers and employers of engineers that the practice of engineering by unregistered men is an unlawful procedure, and that situations may easily arise in which the usefulness of an engineer may be seriously impaired if it can be shown that he is practicing in violation of the law. For example, in the giving of testimony in litigation, an engineer's prestige and the credibility of his testimony would be seriously undermined if it were brought out that he is engaged unlawfully in the practice of his profession.

The Board is eager to do everything in its power to facilitate the registration of every competent engineer who may be following his profession in South Carolina; and it seeks the support of every engineer and employer of engineers in its efforts to enforce the engineering registration law through the voluntary cooperation of those concerned with engineering work.

HISTORY OF ACT PROVIDING FOR REGISTRATION

The Act providing for the creation of a State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 Session and was approved by Governor R. A. Cooper, on March 22, 1922. The Act as now amended was approved by Governor John G. Richards, on March 10, 1928.

The members of the Board were appointed and commissioned by Governor Wilson G. Harvey, on May 31, 1922, as follows:

G. E. Shand, of Columbia; George Wrigley, of Greenville; L. S. LeTellier, of Charleston; W. S. Tomilson, of Columbia; T. Keith Legaré, of Columbia.

The Board held its first meeting in Columbia on June 17, 1922, and was organized by the election of officers and the appointment of committees. The present officers and members of the Board are given on page 4.

GENERAL STATUS OF REGISTRATION IN THE UNITED STATES

Louisiana was the first State to enact a law regulating the practice of engineering, this being in 1908. Since then the following States have adopted engineering registration laws: Arizona, Arkansas, California, Colorado, Florida, Idaho, Indiana, Iowa, Louisiana, Michigan, Minnesota, Mississippi, New Jersey, New York, North Carolina, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Virginia, West Virginia, Wyoming and Hawaii. The National Council of State Boards of Engineering Examiners is composed of all the State Boards, except New Jersey, New York and Pennsylvania, and the purpose of the National Council is "to examine the state laws providing for registration of engineers and the customs and rules of procedure of the different boards in the examination of applicants, to consider suggestions and recommendations for uniformity of practice so far as the same can legally be done by the different State Boards, and to provide for reciprocal relations between the State Boards for granting registration to applicants from other states on equal terms of examination."

RECIPROCAL REGISTRATION

The South Carolina Act provides for reciprocity with other states in the matter of registration of engineers. Articles of agreement on reciprocal registration have been adopted by the National Council and accepted by the South Carolina Board. These articles are printed in full elsewhere in this report. The engineer whose practice extends into other states will find the conditions of registration greatly simplified in those states which have ratified this agreement.

The Board charges no fee for issuing a certificate of reciprocal registration, but registrants are respectfully requested not to apply for reciprocal registration if they have no need for it, and unless convinced that they can satisfy the Board that they possess the qualifications outlined. Special application forms for reciprocal registration will be furnished by the Board.

MEETINGS, FEES, RENEWALS, ETC.

Regular meetings of the Board are held on the second Tuesday of July and the first Tuesday of December. All applications for registration must be made on blanks provided by the Board, accompanied by the required fee and filed with the Secretary of the Board at least ten days before meetings. The fee of \$15.00 required by law

before a candidate can be admitted to examination will not be returned after candidate has taken examination irrespective of whether he passes or fails; nor will fee be returned if candidate fails to appear after being duly notified to report for examination, but the Board may at its discretion admit the candidate to a subsequent examination without additional fee.

All certificates of registration expire on June 30th, of each year. The annual renewal fee of \$5.00 for engineers and \$3.00 for surveyors is payable on or before the 3rd Tuesday of June. Only one fee of \$5.00 is required when classification includes both engineer and surveyor. If fee is not paid until the month of July a penalty of \$1.00 will be added. After August 1st an additional penalty of 10 per cent of the original fee will be added for each month and all registrations not renewed before January 1st will be revoked. The Board, for reasons it may deem sufficient, may re-issue a certificate of registration to any person whose certificate has been revoked.

Application blanks and any other information desired will be furnished by the Secretary of the Board, address P. O. Box 264, Columbia, S. C.

Financial Statement

STATEMENT OF RECEIPTS AND DISBURSEMENTS

July 1, 1928 to June 30, 1929

Balance July 1, 1928.....	\$ 946.93
Receipts:	
Registration and Renewal Fees.....	1,366.00
Interest Credited by State Treasurer	5.66
	<u>\$2,318.59</u>
Disbursements:	
Requisitions on Comptroller General.....	\$1,310.63
Cash Balance, June 30, 1929	1,007.96
	<u>\$2,318.59</u>

ANALYSIS OF DISBURSEMENTS

July 1, 1928 to June 30, 1929

Salaries (Secretary and Stenographer)	\$ 785.00	
Per Diem of Board Members	70.00	
Traveling Expenses	150.05	
Printing and Advertising	244.13	
Office Supplies	11.45	
Insurance (Bond of Secretary)	15.00	
Association Dues (National Council)	35.00	<u>\$1,310.63</u>

AUDITOR'S LETTER AND AFFIDAVITS OF OFFICERS:

*Hon. Albert S. Fant, State Bank Examiner
Columbia, South Carolina.*

Dear Sir:

In compliance with the law, we have audited the accounts of the South Carolina State Board of Engineering Examiners, Columbia, S. C., covering the period beginning July 1, 1928 and ending June 30, 1929. Our report is enclosed herewith.

Receipts have been checked from original records, and disbursements, all of which are made through the Comptroller General, have been reconciled.

All cash of record is properly accounted for.

Respectfully submitted,

(Signed) J. M. SMITH,
State Auditor.

Columbia, S. C., July 2, 1929.

State of South Carolina, County of Charleston,

I, L. S. LeTellier, Chairman of the State Board of Engineering Examiners do hereby certify that the financial statement herewith rendered of the State Board of Engineering Examiners is true to my own knowledge, except those matters and facts stated on information and belief, and as to those, I believe it to be true.

(Signed) L. S. LETELLIER,

Subscribed and sworn to before me, this 25th day of July, 1929.

(Signed) O. J. BOND,
Notary Public for S. C.

State of South Carolina, County of Richland,

I, T. Keith Legaré Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners for the period specified.

(Signed) T. KEITH LEGARÉ,

Subscribed and sworn to before me, this 29th day of July, 1929.

(Signed) WM. A. CRARY, JR.,
Notary Public for S. C.

ROSTER OF

Registered Professional Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina as of August 1, 1929.

NOTE—IT IS VERY IMPORTANT THAT THE SECRETARY BE NOTIFIED OF CHANGES IN POSITION OR ADDRESS.

Key to Abbreviations in Classification:

C.E., Civil Engr.; E.E., Electrical Engr.; E.M., Mining Engr.; M.E., Mechanical Engr.; L.S., Land Surveyor.

Name and Position	Address	Classification	Certificate Date	No.
*ADAMS, D. G., City Engineer.	City Hall, Spartanburg, S. C.	C.E., L.S.	3-22-23	70
ADAMS, J. K., Chief Struct. Designer, J. E. Sirrinc & Co.	Greenville, S. C.	C.E.	3-22-23	72
ADAMS, T. C., Res. Engr., State Highway Department.	Box 253, Denmark, S. C.	C.E.	6-22-26	307
ALBERGOTTI, W. M., Mech. Engr., Gibbs Machinery Co.	Columbia, S. C.	M.E., E.E.	12-5-22	38
ALLEN, CHARLES KYES, Res. Engr., Waddell & Hardesty.	Francis Marion Hotel, Charleston, S. C.	C.E., L. S.	12-4-28	329
*ALLEN, W. M., Civil Engineer and Surveyor.	Dillon, S. C.	C.E., L.S.	9-14-22	6
*ALLEN, JAS. P., Civil Engr., (Retired).	11 Broad St., Charleston, S. C.	C.E., L.S.	6-19-23	261
ANDERSON, JOHN, Associate Prof. Engineering, The Citadel.	Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, N. S., Asst. to State Highway Engineer.	Columbia, S. C.	C.E., E.M.	3-22-23	246

ANDERSON, S. G., Vice-Pres. and Cash., First Nat. Bank, Surveyor.	Woodruff, S. C.	L.S.	9-14-22	8
ARMSTRONG, F. E., Asst. Div. Engr., S. C. State Highway Dept.	Orangeburg, S. C.	C.E.	3-22-23	71
AVENT, HUGH P., Struct. Designer, J. E. Sirrine & Co.	Greenville, S. C.	C.E.	12-6-27	318
BAILEY, O. A., Chief Engr., Chicago Bridge & Iron Works.	1305 West 105th St., Chicago, Ill.	C.E.	11-19-23	277
BAKER, H. J., Pres. and Gen. Mgr., Hugh J. Baker & Co.	P. O. Box 892, Indianapolis, Ind.	C.E., M.E.	1-27-27	317
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.	205 Dozier St., Georgetown, S. C.	C.E., L.S.	9-14-22	9
BALLENGER, C. P., Engr. Ballenger Paving Co.	226 Emaxcee Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	73
BANGS, P. C., Dist. Engr., Warren Webster & Co.	618 Atlanta Trust Bldg., Atlanta, Ga.	M.E.	12-7-26	311
BARKLEY, M. B., Vice-Pres. Cameron & Barkley Co.	160 Meeting St., Charleston, S. C.	M.E.	3-22-23	74
**BARNWELL, J. W., Jr., Bridge Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E., M.E., L.S.	3-22-23	87
BECKHAM, W. K., Maintenance Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	88
BELLENGER, HARRY O'B., Asst. Engr., City Engr. Office.	City Hall, Columbia, S. C.	C.E.	3-22-23	86

BISHOP, G. H., Consl. Engr., Carolina Engineering Co.	917-9-9 Johnston Bldg., Charlotte, N. C.	C.E., L.S.	12-5-22	65
BISHOP, R. P., Engineer, The Carolina Engineering Co.	P. O. Box 1288, Charlotte, N. C.	C.E., L.S.	12-5-22	40
BLACKWELDER, C. D., J. E. Sitrine & Co., Engrs.	P. O. Box 266, Greenville, S. C.	C.E., M.E.	6-22-26	306
*BOOKER, WARREN H., Consl. Engineer.	P. O. Box 292, Charlotte, N. C.	C.E., E.E.	12-2-24	285
BOESCH, CLARENCE E., Member of Firm, Gilbert C. White Co., Consl. Engineers.	P. O. Box 562, Durham, N. C.	C.E., M.E., E.E.	12-5-22	41
BOONE, L. C., County Engineer, Orangbeurg County.	Orangeburg, S. C.	C.E.	9-14-22	11
BOWEN, S. H., City Engineer and Land Surveyor.	Easley, S. C.	C.E., L.S.	3-22-23	75
*BOSWELL, R. NORMAN, Civil Engineer.	603 Woodrow St., Columbia, S. C.	C.E.	7-10-28	323
BOYKIN, A. B., Land Surveyor.	Camden, S. C.	L.S.	3-22-23	76
BOYKIN, L. W., Jr., Land Surveyor.	Aiken, S. C.	L. S.	7-10-28	324
BOYKIN, T. A., Overhead Dept. Broad River Power Co.	3101 First Ave., Columbia, S. C.	C.E., L.S.	3-22-23	77
**BRADLEY, HUGHES V., Res. Engr., State Highway Dept.	Walterboro, S. C.	C.E., L.S.	3-22-23	82
*BRICE, Chas. M., Carolina Engineering Company.	P. O. Box 1288, Charlotte, N. C.	C.E., L.S.	3-22-23	85

BRIGGS, W. A., Engr. and Contractor.	Capers Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	83
*BROWN, ALEX T.,	Orangeburg, S. C.	C.E., L.S.	3-22-23	79
BROWN, D. P., Logging Supt.	Varnville, S. C.	C.E., L.S.	3-22-23	84
BUCK, F. E., Res. Engr., State Highway Dept.	P. O. Box 1172, Columbia, S. C.	C.E., L.S.	12-7-26	313
BURDEN, HENRY S.,	1150 Willow Branch Ave., Jacksonville, Fla.	C.E.	3-22-23	78
BUSSEY, H. E., District Engr., General Electric Co.	Atlanta, Ga.	M.E., E.E.	4-21-25	293
BYERS, E. D., Jr., Res. Engr., State Highway Dept.	Holly Hill, S. C.	C.E., L.S.	3-22-23	80
BYNUM, H. L., Tomilson Engineering Co.	1226 Sumter St., Columbia, S. C.	L.S.	7-9-29	338
CAMPBELL, C. D., Maintenance Supervisor, State Highway Dept.	P. O. Box 87, Orangeburg, S. C.	C.E., L.S.	3-22-23	90
CANNON, O. B., Supt. of Newberry Schools and Land Surveyor.	Newberry, S. C.	L.S.	12-5-22	63
CATHEY, W. C.,	Route 11 Box 28, Charlotte, N. C.	C.E., L.S.	3-22-25	97
*CHAFFIN, WENDEL W., Civil Engineer.	Sanford, N. C.	C.E., L.S.	3-22-23	89
CHAPMAN, ROBT. H., Steam Engineering Dept., J. E. Sirrinc & Co.	Greenville, S. C.	M.E.	3-22-23	99
*CHEVES, H. C., Jr., Pres. & Treas., Cheves-Oliver Const. Co.	54 Broad St., Charleston, S. C.	C.E., L.S.	3-22-23	93

**CLOWE, R. D., Res. Engr., State Highway Dept.	Spartanburg, S. C.	C.E.	3-22-23	98
COGGESHALL, J. W., Res. Engr., State Highway Dept.	Public Square, Darlington, S. C.	C.E., L.S.	3-22-23	96
**COLEMAN, SAMUEL, L., Asst. Engr., City of Charleston.	City's Engr. Office, Charleston, S. C.	C.E., L. S.	3-22-23	94
CONRAD, R. A., Gen. Mgr., The Conrad Constr. Co.	P. O. Box 662, Florence, S. C.	C.E.	3-22-23	95
*COVINGTON, JAS. F., County Engr., Marlboro County.	Bennettsville, S. C.	C.E., L.S.	3-22-23	91
COVINGTON, JAMES C., Civil Engr. and Surveyor.	3005 Blossom St., Columbia, S. C.	C.E., L. S.	7-9-29	333
CRAWFORD, JAMES ROY, CRAWFORD, R. T.,	Clinton, S. C.	L. S.	12-4-28	331
DALLIS, P. A., Architect & Engr.	3 Smith Place, Charleston, S. C.	C.E.	3-22-23	92
DALTON, R. E., Civil Engr., Dalton & Neves.	Candler Bldg., Atlanta, Ga.	C.E.	12-7-26	314
DAWSON, LOUIS Y., Const. Engr., S. C. Power Co., Pres. Dawson Engineering Co.	125½ S. Main St., Greenville, S. C.	C.E.	12-5-22	64
DAWSON, L. Y., Jr., Vice-Pres., Dawson Engineering Co.	P. O. Box 535, Charleston, S. C.	C.E., L.S.	12-5-22	42
DENEEN, W. B., County Engineer., Union County.	21 Broad St., Charleston, S. C.	C.E., L.S.	3-22-23	101
*DICKERT, H. K., Res. Engr., State Highway Dept.	P. O. Box 74, Union, S. C.	C.E.	9-14-22	13
	Rock Hill, S. C.	C.E., L.S.	12-1-25	299

*DILL, TERRY T., Res. Engr., Iowa State Highway Comm.	104 Court House, West Union, Iowa.	C.E.	3-22-23	104
DINGLE, J. H., City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	14
*DUNBAR, THOS. E.,	Elleton, S. C.	C.E., L.S.	3-22-23	104
*DuRANT, C. E., Land Surveyor.	Cottageville, S. C.	L.S.	3-22-23	243
*EADDY, JNO. M., Land Surveyor.	P. O. Box 82, Johnsonville, S. C.	L.S.	3-22-23	242
EARLE, HARRY U., Land Surveyor.	Walhallia, S. C.	L. S.	12-5-22	43
*ELSON, J. C., Gen. Supt., Simons-Mayrant Co.	506 Peoples Bldg., Charleston, S. C.	C. E.	3-22-23	107
EMERSON, C. L., Vice-Pres. and Chief Engr., Robert & Company.	706 Bona-Allen Bldg., Atlanta, Ga.	C.E., E.E., M.E.	7-9-29	335
EMERSON, L. A., Sec. & Treas., Tomlinson Engr. Co.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	9-14-22	15
*ENGLISH, B. M., Asst. to Construction Engr. Engineer.	State Highway Dept. Columbia, S. C.	C.E., L.S.	3-22-23	109
EVANS, C. D.,	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	106
EVANS, R. M., Civil Engr and Land Surveyor.	Bennettsville, S. C.	C.E., L.S.	3-22-23	108
*FILBY, E. L., Chief Engr., State Board of Health.	Jacksonville, Fla.	C.E.	3-22-23	114
**FISHER, L. M., Asso. San. Engr., U. S. Public Health Service.	45 Broadway, New York City.	C.E.	3-22-23	113

**FLOWERS, S. R., Camp Mfg. Co. and Surveyor.	Marion, S. C.	L.S.	3-22-23	259
*FLOYD, G. T., Real Estate, Ins., Surveying and Civil Engr.	Manning, S. C.	C.E., L.S.	9-14-22	16
FORD, G. T., Engineering and Land Surveying.	222 Cannon St., Georgetown, S. C.	C.E., L.S.	9-14-22	17
FOSTER, J. W.,	Summerville, S. C.	C.E.	3-22-23	111
*FRANK, J. N., Civil Engineer and Surveyor.	Walterboro, S. C.	C.E., L.S.	6-19-23	263
FRY, E. D., Supt. Greater Greenville Sewer District Comm.	Greenville, S. C.	C.E., L.S.	3-22-23	112
*FURMAN, C. M., Jr., Civil Engr. and Land Surveyor.	11 W. Court St., Greenville, S. C.	C.E., L.S.	3-22-23	110
GAILLARD, J. P., Civil Engr. and Timber Estimator.	514 Peoples Bldg., Charleston, S. C.	C.E.	3-22-23	117
*GANDY, R. B., Civil Engineer and Surveyor.	Andrews, S. C.	C.E., L.S.	3-22-23	119
GARRISON, L. CLYDE, Res. Engr., H. S. Jaudon Engr. Co.	Box 7, Dawson, Ga.	C.E., L.S.	3-22-23	116
GASQUE, B. M., Land Surveyor.	Marion, S. C.	L.S.	3-22-23	236
GIBSON, J. E., Mgr. and Engr., Water Dept., Charleston.	14 George St., Charleston, S. C.	C.E.	3-22-23	244
**GIDEON, F. CLYDE,	(Unknown)	C.E.	6-22-26	308
*GILLESPIE, W. L., Civil Engineer and Surveyor.	P. O. Box 337, Cheraw, S. C.	C.E., L.S.	3-22-23	118

*GLEN, A. LEONARD, Res. Engr., S. C. State Highway Dept.	1430 Blanding St., Columbia, S. C.	C.E., L.S.	6-19-23	264
GOURDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E., L.S.	9-14-22	18
**GRANDY, LLOYD H., Contractor and Engineer.	Greenville, S. C.	C.E.	3-22-23	115
GREENE, J. C., U. S. Engineer's Office.	807 McColl Bldg., Memphis, Tenn.	C.E., L.S.	9-14-22	19
GUNTER, GEO. C., Land Surveyor.	Seivern, S. C.	L.S.	12-5-22	45
**HALE, JOSEPH W., Engineer, A. C. L. R. R.	P. O. Box 762, Rocky Mount, N. C.	C.E., L.S.	3-22-23	125
HAMBY, THEO. C., Lexington Water Power Co.	Columbia, S. C.	C.E., L.S.	12-5-22	46
HAMPTON, AMBROSE G., Res. Engineer, S. C. State Highway Dept.	McClellanville, S. C.	C.E., L.S.	3-22-23	132
*HANAHAN, JOHN, Carolina Portland Cement Co.	P. O. Box 1404, Columbia, S. C.	L.S.	6-19-23	265
HARDESTY, SHORTRIDGE, Waddell & Hardesty.	150 Broadway, New York, N. Y.	C.E.	12-4-28	330
HARRIS, W. E., Res. Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E., L.S.	3-22-23	123
HARRISON, F. P., Elec. Engr., Lockwood-Greene Engrs., Inc.	Wilson Bldg., Charlotte, N. C.	E.E.	3-22-23	137
*HARTLEY, E. L., Land Surveyor.	Batesburg, S. C.	L.S.	3-22-23	258
*HARVEY, G. H., Surveyor.	Holly Hill, S. C.	L.S.	3-22-23	131

HAWES, EDWARD, City Engineer.	Orangeburg, S. C.	C.E., L.S.	3-22-23	136
*HAY, E. G., Land Surveyor.	686 N. Orange Ave., Orlando, Fla.	L.S.	3-22-23	237
HENRY, J. B., Pres., Henry Const. Co., Engrs. and Contrs.	P. O. Box 1000, Greenville, S. C.	C.E.	3-22-23	140
HESTER, W. A., Land Surveyor.	Travelers Rest, S. C.	L. S.	3-22-23	124
HICKLIN, W. J., Capitol Concrete Co.	122 Palmetto Ave., South Jacksonville, Fla.	C.E.	3-22-23	121
HILL, GEORGE, Engineer.	Tucapau, S. C.	M.E., E.E.	6-19-23	266
HILL, BURROW, Maintenance Supv., S. C. State Highway Dept.	Greenville, S. C.	C.E.	3-22-23	134
HOLMAN, A. E., Chief Engr., Gossett's Group of Mills.	Anderson, S. C.	E.E., M.E.	3-22-23	120
HOLMES, W. F., Care Kalman Steel Company.	P. O. Box 1194, Greensboro, N. C.	C. E.	3-22-23	133
HOLT, D. T., Land Surveyor.	Wateree, S. C.	L.S.	3-22-23	126
**HOOK, E. B., Jr., Engr., Lockwood Greene Engineers, Inc.	1530 Healey Bldg., Atlanta, Ga.	E.E.	3-22-23	135
HOWE, G. M., Asst. City Engineer.	P. O. Box 807 Charleston, S. C.	C.E., L.S.	9-14-22	20
**HUGHES, N. C., Jr., Contracting Engineer.	Box 425, Columbia, S. C.	C.E.	3-22-23	128
HUGHEY, R. D., Georgia & Florida Railroad.	Edgefield, S. C.	C.E.	3-22-23	129

HULICK, D. A., City Engineer.	City Hall, Greenville, S. C.	C.E., L.S.	3-22-23	130
HUMBERT, H. B., County Engineer, Spartanburg County.	557 Gadsden Court, Spartanburg, S. C.	C.E., L.S.	12-5-22	47
*HUNTER, SAM M., Jr., Slattery & Henry, Inc.	Greenville, S. C.	C. E., L.S.	3-22-23	138
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JAMES, R. T., Civil Engineer.	1706 Elizabeth Ave., Charlotte, N. C.	C.E., L.S.	11-19-23	278
JAUDON, H. S., Jaudon Engineering Co., Municipal Engineers.	P. O. Box 582, Elberton, Ga.	C.E.	12-5-22	48
*JEFFORDS, J. E.,	P. O. Box 22 Pikesville, N. C.	C.E.	9-14-22	21
JERVEY, E. D., Engr. Sanitary and Drainage Commission.	39 Broad St., Charleston, S. C.	C.E.	3-22-23	144
JOHNSON, CECIL, Res. Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E.	3-22-23	141
JOHNSON, J. M., Johnson & Roberts, Engrs. and Surveyors.	Marion, S. C.	C.E., L.S.	3-22-23	146
**JOHNSTON, J. NEWTON, Consl. Civil Engineer.	1509 Lady Street, Columbia, S. C.	C.E., L. S.	3-22-23	142
*JONES, H. C., Res. Engr., S. C. State Highway Dept.	Orangeburg, S. C.	C.E., L.S.	3-22-23	143
JORDAN, T. M., Res. Engr., Myrtle Beach Estates, Inc.	Myrtle Beach, S. C.	C.E.	7-9-29	334

**KAUFFMAN, IRA U., Civil Engineer.	Glenn Bldg., Spartanburg, S. C.	C.E., L.S.	3-23-25	295
KEELS, JOSEPH, Engr., Tomlinson Engineering Co.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	12-5-22	49
**KENNEDY, J. T., Land Surveyor.	Route No. 1, Wagner, S. C.	L.S.	9-14-22	22
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KING, ROBERT, Supt. of Purchase, State Highway Dept.	Columbia, S. C.	C.E.	3-22-23	148
*KOLLOCK, J. T., Forest Engineer.	4 Broad St., Charleston, S. C.	C.E.	3-22-23	150
LaBRUCE, G. H.,	13 Savage St., Charleston, S. C.	C.E., L.S.	3-22-23	156
LaBRUCE, J. B., Supt. of Constr., Simons-Mayrant Co.	131 Ashley, Ave., Charleston, S. C.	C.E., M.E., L.S.	3-22-23	157
LaMOTTE, FRANK W., Engr., State Highway Dept.	1818 Henderson St., Columbia, S. C.	C.E., L.S.	7-10-28	322
*LANGFORD, B. G., Rural Mail Carrier and Surveyor.	Travelers Rest, S. C.	L.S.	3-22-23	161
LEE, F. W., National Cement Co.	P. O. Box 146, Columbia, S. C.	C.E., L.S.	9-14-22	23
LEE, RANDOLPH B., Civil Engr. and Surveyor, J. F. Prettyman and Sons.	Summerville, S. C.	C.E., L.S.	3-22-23	162

*LEE, W. LORING, Civil Engineer, (Retired).	Sumter, S. C.	C.E., L.S.	9-14-22	24
LEGARÉ, T. KEITH, Vice-Pres and Sales Engr., Carolina Concrete Pipe Co.; Sec. State Board of Engineering Examiners; Sec.-Treas. National Council State Boards of Engineering Examiners.	P. O. Box 264, 1226 Sumter St., Columbia, S. C.	C.E., L.S.	9-14-22	3
LEGARÉ, A. E., State Sanitary Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E., L.S.	6-23-25	296
LeTELLIER, L. S., Prof. of Civil Engineering, The Citadel. Chairman State Board of Eng. Examiners.	The Citadel, Charleston, S. C.	C.E.	9-14-22	2
LEVER, S. R., Res. Engr., Parker Laboratories.	Box 191, Chattanooga, Tenn.	C.E.	6-19-23	267
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LINDER, THOS. T., Surveyor and Farmer.	Route No. 1, Spartanburg, S. C.	L.S.	3-22-23	154
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LINLEY, B. R., Res. Engr., State Highway Dept.	Box 156, Barnwell, S. C.	C.E., L.S.	3-22-23	153
**LOUGHLIN, JAMES A., Civil Engineer.	Box 362, Camden, S. C.	C.E.	3-22-23	159
LUDLOW, J. L., Consl. Engineer.	511-516 Wachovia Bank Bldg., Winston-Salem, N. C.	C.E.	7-10-28	328

LUTEN, DANIEL B., Des. and Cons'l. Engineer.	1056 Consolidated Bldg., Indianapolis, Ind.	C.E.	12-5-22	50
MAHAFFEY, L. M., Surveyor and County Supt. of Education.	Anderson, S. C.	L.S.	3-22-23	169
MANHEIM, C. M., Asst. Engr., Johnson & Roberts.	Marion, S. C.	C.E., L.S.	3-22-23	260
**MARSH, M. R., Architect and Engineer.	224 Latta Arcade, Charlotte, N. C.	C.E.	3-25-25	291
*MARTIN, J. W., Res. Engr., Volunteer Portland Cement Co.	Charleston Hotel, Charleston, S. C.	C.E., L.S.	3-22-23	167
MAULDIN, EARLE, Engr. The Park Mfg. Co.	Box 423, Charlotte, N. C.	C.E., M.E.	3-22-23	251
**MAULDIN, THOS. S.,	127 Westfield St., Greenville, S. C.	C.E., L.S.	6-19-23	268
MAY, L. A., Engr. Northeastern Constr. Co.	Nissen Bldg., Winston-Salem, N. C.	C.E.	3-22-23	165
MAYES, JAS. B., Maintenance Supv., State Highway Dept.	Kingstree, S. C.	C.E.	9-14-22	25
**MAYNARD, R. W., Engineer of Construction, Grove Mills.	Hickory, N. C.	C.E.	6-19-23	269
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MICHAEL, F. C., Pres. and Elect. Engr., Michael & Bivens, Inc.	P. O. Drawer 434, Gastonia, N. C.	E.E.	3-25-25	292
MILLARD, C. H., With Dalton & Neves.	P. O. Box 170, Cleveland Bldg., Greenville, S. C.	C.E., L.S.	6-19-23	274

MILLER, W. H., Civil Engineer and Surveyor.	Bushnell, Fla.	C.E., L.S.	6-19-23	280
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MITCHELL, W. L., Land Surveyor.	Honea Path, S. C.	L. S.	9-14-22	26
*MOBLEY, H. C., Asphalt Dept., Standard Oil Co.	Charleston, S. C.	C.E., L.S.	3-22-23	171
MOORE, THOS. V., Supt. Raymond Concrete Pipe Co.	140 Cedar St., New York, N. Y.	C.E.	3-22-23	164
*MOOREFIELD, CHAS. H., State Highway Engineer.	Columbia, S. C.	C.E.	6-22-26	309
MORGAN, G. R., Vice-Pres. and Treas., Morgan-Barr Elect. Co.	Greenville, S. C.	E.E.	12-7-26	312
MORRISON, H. T., Farmer, Manufacturer, Surveyor.	McClellanville, S. C.	L.S.	3-22-23	166
MOSS, S. DIBBLE, Surveyor Orangeburg Real Estate and Surveying Company.	3 Whitman St., Orangeburg, S. C.	L.S.	7-10-28	327
MUCKENFUSS, A. A., Maint. Supv., S. C. State Highway Dept.	P. O. Box 491, Aiken, S. C.	L.S.	3-22-23	185
MURPH, M. L., Maint. Supv., S. C. State Highway Dept.	Camden, S. C.	C.E., L.S.	9-14-22	27
*MURRAY, F. H., Consl. Engineer.	422 North Main St., Sumter, S. C.	C.E., L.S.	12-5-22	52
**McALHANY, T. D., Res. Engineer, State Highway Dept.	Union, S. C.	L.S.	3-22-23	256

McCORMICK, J. A., Sec.-Treas., Charleston Engr. & Constr. Co.	58 Broad St., Charleston, S. C.	C.E.	6-19-23	270
McCULLOUGH, L. H., Palmetto Engineering Co.	Aiken, S. C.	C.E., L.S.	12-2-24	287
**McCRADY, W. S., Lexington Clay Mines.	702 Liberty Bank Bldg., Columbia, S. C.	C.E., L.S.	12-1-25	302
McCRADY, JOHN, Consl. Civil Engineer.	P. O. Box 912, Charleston, S. C.	C.E.	3-22-23	173
McLAURIN, C. H., Land Surveyor.	Clio, S. C.	L.S.	3-22-23	174
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McLURE, J. H., City Engr. and Treasurer.	City Hall, Chester, S. C.	C.E., L.S., E.M.	3-22-23	252
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NEEDLE, JOE, Asst. City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	29
NEVES, W. D., Dalton & Neves, Civil Engineers.	Cleveland Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	176
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OLSEN, WM. C., Consulting Engineer.	405 Bldg. & Loan Bldg., Raleigh, N. C.	M.E., E.E.	12-7-26	310
**PAGE, OTIS M., Civil Engr., Mgr. Builders Supply Co.	Dillon, S. C.	C.E., L.S.	3-22-23	181
PALMER, GEO. H., Palmer Construction Co.	Box 652, Florence, S. C.	C.E.	3-22-23	183
PALMER, JOSEPH, Civil Engineer.	7½ Law Range, Sumter, S. C.	C.E., L.S.	9-14-22	30
PARKER, J. L., Consulting Engineer.	602 Peoples Bank Bldg., Charleston, S. C.	C.E.	3-22-23	188
*PATTERSON, A. H., County Engr., Anderson County.	Anderson, S. C.	C.E., L.S.	3-22-23	186
*PATTON, P. F., Civil Engineer.	922 Flemming St., Hendersonville, N. C.	C.E., L.S.	3-22-23	184
PEARSON, J. F., Supt. Orangeburg Water and Lighting Plant.	52 S. Middleton St., Orangeburg, S. C.	E.E., M.F.	3-22-23	182
PEASE, J. N., Lockwood Green Engineers, Inc.	Johnson Bldg., Charlotte, N. C.	C.E.	3-22-23	189
**PERRIN, J. C., Res. Engr., S. C. State Highway Dept.	Greenwood, S. C.	C.E.	12-5-22	54
PIATT, WM. M., Consulting Engineer.	400-1 First Nat. Bank Bldg., Durham, N. C.	C.E., E.E.	12-5-22	55
*PITTS, W. C., County Engineer, Horry County.	Conway, S. C.	C.E., L.S.	3-22-23	179
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PORTER, R. D., Engineer, J. E. Sirrinc & Co.	Greenville, S. C.	M.E., C.E.	3-22-23	250

*PORTER, R. M., Columbia Clay Co.	Columbia, S. C.	L.S., C.E.	3-22-23	245
POSTELL, JAS. A., Land Surveyor.	R. F. D., Ravenel, S. C.	L.S.	9-14-22	31
POWERS, R. M., Civil Engineer, Highways and Railroads.	1248 Third St., Beaver, Pa.	C.E., L.S.	3-22-23	180
PRETTYMAN, C. F., Gen. Mgr., J. F. Prettyman & Sons.	Summerville, S. C.	C.E., L.S.	3-22-23	187
PRICE, EDW. L., Supt. M. L. Stephenson.	3203 N. Charles St., Baltimore, Md.	C.E., L.S.	9-14-22	32
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RAMBO, S. B., City Engineer.	City Hall, Greenwood, S. C.	C.E.	12-5-22	57
**REDDEN, J. E., Prof. of Math. and Eng., John Tarleton Agricultural College.	Box 554, Stephenville, Texas.	C.E., L.S.	3-22-23	195
REED, J. O., Res. Engr., State Highway Dept.	Swansea, S. C.	C.E.	3-22-23	193
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**RHETT, RICHARD C., Surveyor.	29 Broad St., Charleston, S. C.	L. S.	6-22-26	305
RHOAD, ST. CLAIR,	Route 2, Branchville, S. C.	L.S.	7-9-29	336
RICHARDSON, JNO., Pres. and Mgr., Richardson Construction Co.	P. O. Box 694, Charleston, S. C.	C.E., L.S.	3-22-23	190

ROBERTS, C. P., Johnson & Roberts, Consulting Engineers.	Marion, S. C.	C.E., L.S.	3-23-23	239
ROBERTS, J. F., Maint, Supv., State Highway Dept.	Walterboro, S. C.	C.E.	3-22-23	194
ROBINSON, C. CUSTER, Member of Firm, C. M. Robinson, Architects.	Times-Dispatch Bldg., Richmond, Va.	M.E.	12-5-22	58
**RODGERS, WM. S., Broad River Power Co.	2230 Lincoln St., Columbia, S. C.	E.E., M.E.	3-22-23	191
ROWE, WALTER E., Dean School of Engineering, Univ. of S. C.	Columbia, S. C.	C.E.	12-1-25	298
ROYALL, N. N., Engineer, Jaudon Engr. Co.	Elberton, Ga.	C.E., L.S.	9-14-22	33
*RYAN, G. D., Ryan Engineering Co.	Arcade Bldg., Columbia, S. C.	C.E., L.S.	3-22-23	198
**SANDERS, W. A., Civil Engineer.	Anderson, S. C.	C.E.	3-22-23	199
SCRUGGS, E. L., Engineer, Tucker & Laxton.	901 Independence Bldg., Charlotte, N. C.	C.E.	1-15-28	321
SCRUGGS, J. Y., County Engineer.	P. O. Box 200, Rock Hill, S. C.	C.E.	3-22-23	241
SECREST, T. W., Land Surveyor.	Box 121, Waxhaw, N. C.	L.S.	2-22-23	208
SHAND, G. E., Pres. Shand Engineering & Sales Co., Vice- Chairman State Board of Engr. Examiners.	705 Lady St., Columbia, S. C.	C.E., M.E.	9-14-22	1
SHAW, H. W., Surveying and Drainage.	Route 2, Bishopville, S. C.	C.E., L.S.	6-17-24	284

SHEARER, WM. H.,				
**SHEARER, W. A., Engineer and Surveyor, City Engineer.	506 Marshall Ave., Anderson, S. C.	C.E., L.S.	9-14-22	35
SHEPPARD, G. J., Sr. Asst. Engr., A. C. L. R. R. Co.	506 Marshall Ave., Anderson, S. C.	C.E., L.S.	12-2-24	286
SHULER, E. H., Asst. Prof. of Math., Wofford College.	18 Jefferson St., Jacksonville, Fla.	C.E.	6-17-24	283
**SIMMONS, J. W., Asst. City Engineer.	126 E. Cleveland St., Spartanburg, S. C.	M.E., E.E., L.S.	3-22-23	209
*SINGLETARY, J. A., Land Surveyor.	City Hall, Spartanburg, S. C.	C.E., L.S.	3-22-23	203
SIRRINE, J. E., J. E. Sirrime & Co., Engineers.	Cross, S. C.	L.S.	3-22-23	200
SLATTERY, L. P., Pres. Slattery & Henry, Inc., Contractors.	South Main St., Greenville, S. C.	C.E., L.S.	12-5-22	60
SLIGH, H. L., Maint. Engr., S. C., State Highway Dept.	Capers Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	151
*SLOAN, E. D., Jr., Gen. Mgr. Carolina Road Surfacing Co.	Florence, S. C.	C.E.	3-22-23	207
SMITH, ELROY G., Civil and Consulting Engineer.	Capers Bldg., Greenville, S. C.	C.E.	3-22-23	212
*SMITH, WILBUR W., Civil Engineer.	Suite 313 Herald Bldg., Augusta, Ga.	C.E., L.S.	7-10-28	326
*SMITH, RUSSELL A., Civil Engr. and Land Surveyor.	Commercial Bank Bldg., Charlotte, N. C.	C. E.	1-23-25	289
*SMITH, RAYMOND B., Surveyor, J. C. Kollock.	506 Circle Ave., Charlotte, N. C.	C.E., L.S.	12-5-22	59
	McClellanville, S. C.	L.S.	3-22-23	214

SMITH, T. J., Land Surveyor.	238 N. Purdy St., Sumter, S. C.	L. S.	3-22-23	211
SMYLY, J. W., Farmer and Land Surveyor.	R. F. D., Ruffin, S. C.	L. S.	3-22-23	202
SPELLMAN, J. F., Draftsman Engr., J. E. Serrine & Co., Engrs.	P. O. Box 1123, Greenville, S. C.	C.E., M.E.	3-22-23	204
*STEVENSON, T. C., Pres. and Treas., Stevenson Engr. & Con- tracting Co.	St. Augustine, Fla.	C.E.	3-22-23	206
STONE, A. T. S., Civil Engineer and Surveyor.	129 Tradd St., Charleston, S. C.	L. S.	7-9-29	337
SUDLOW, HARRY, City Engr. and Dist. Mgr. S. C. Power Co.	Merchts. & Farms. Bk. Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	210
*SULLIVAN, D. H., Chief Engr. and Gen. Mgr., Nisbet Wing- field Co., Inc., Consl. Engrs.	Box 445, Aiken, S. C.	C.E., E.E.	7-9-29	332
*SULLIVAN, J. F., Consulting Engineer.	Marion Bldg., Augusta, Ga.	C.E., L.S.	3-22-23	205
*SUTTON, H. N., Alpha Portland Cement Co.	2144 Municipal Bldg., New York, N. Y.	C.E.	1-27-27	318
*SWEENEY, F. R., Consl. Engr., F. R. Sweeney & Co.	905 West 2nd St., Charlotte, N. C.	C.E.	3-22-23	213
TALLMADGE, WEBSTER, Steam Engineering Specialist.	Anderson, S. C.	C.E.	3-22-23	247
TEEPLE, PERRY M., Civil Engineer and Surveyor.	50 Church St., New York, N. Y. 8 Myrtle Court, Columbia, S. C.	M.E., E.E. C.E., L.S.	6-22-26 9-14-22	303 36

THOMSON, B. M., Assistant City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	34
**TOBIN, L. P., Supt. and Gen. Mgr., Municipal Lighting Water and Power Plant.	P. O. Box 132, Bamberg, S. C.	E.E., M.E.	3-22-23	217
TOMLINSON, W. S., Pres. Tomlinson Engineering Co., City Engineer, Member State Board of Eng. Examiners.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	9-14-22	4
TOWLES, V. E., U. S. Bureau of Public Roads.	State Office Bldg., Columbia, S. C.	C.E., L.S.	12-13-26	315
**TROT, CAMBRIDGE M., Vice-Pres., Charleston Engr. & Const. Co.	Charleston, S. C.	C.E.	3-22-23	216
**TRYON, HENRY H., Forest Engineer.	(Unknown)	L.S.	12-2-24	288
TURBEVILLE, W. R., Field Bridge Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E.	3-22-23	218
*TUTEN, L. B.,	Brunson, S. C.	C.E., L.S.	3-22-23	219
**VERNER, C. V., Maint. Supv., S. C. State Highway Dept.	Chesterfield, S. C.	C.E., L.S.	3-22-23	221
*VERNON, J. E., Contractor and Engineer.	308 Wheeler St., Spartanburg, S. C.	C.E., L.S.	3-22-23	220
WAGENER, C. F., Chief Engr., J. B. McCrary Engineering Co.	1408 Cit. & Sou. Bk. Bldg., Atlanta, Ga.	C.E., M.E., E.E., L.S.	3-22-23	230
WALLACE, W. G., Assistant Lighthouse Engineer.	9 Ladson St., Charleston, S. C.	C.E.	6-19-23	273
*WANNAMAKER, C. W., County Highway Engineer.	P. O. Box 66, Saluda, S. C.	C.E., L.S.	3-22-23	233

WANNAMAKER, H. L., Supt. Simons-Mayrant Co.	Charleston, S. C.	C.E.	3-22-23	248
WANNAMAKER, W. W., Jr., Res. Engr., S. C. State Highway Dept.	Orangeburg, S. C.	C.E., L.S.	12-1-25	301
WARDLAW, J. T., Asst. Mgr. Lockwood Greene Engineers, Inc.	Wilson Bldg., Charlotte, N. C.	C.E., M.E.	6-19-23	281
WATSON, GEO L., Consulting Engineer.	150 Nassau St., New York, N. Y.	C.E.	12-5-22	61
WESTON, JULIAN B., Asst. Engr., Sanitary and Drainage Comm.	39 Broad St., Charleston, S. C.	C.E., L.S.	3-22-23	222
WESTON, WILLIAM, Field Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	3-22-23	225
WHITE, GILBERT C., Consl. Engr. and Pres., Gilbert C. White Co.	406½ Main St., Durham, N. C.	C.E.	12-5-22	67
WHITE, GUY H., Supt. of Water Plant, City of Columbia.	Filtration Plant, Columbia, S. C.	M.E.	9-14-22	37
WHITE, GEO. W., Harwood Becbe Co., Consl. Engrs.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	232
WHITE, H. H., Miller & White, Engineers and Surveyors.	Rock Hill, S. C.	C.E., L.S.	3-22-23	228
WHITFIELD, W. A., Dist. Office Engr., N. C. State Highway Comm.	P. O. Box 826, Asheville, N. C.	C.E.	12-5-22	66
WIEDEMAN, H. F., Wiedeman & Singleton, Inc., Consl. Engrs.	1404 Candler Bldg., Atlanta, Ga.	C.E.	6-23-25	294
WIGINTON, B. F., Land Surveyor.	Route No. 1, Piedmont, S. C.	L.S.	12-7-26	316
**WILKINSON, A. C., Civil Engineer.	Box 367, Gaffney, S. C.	C.E., L.S.	12-1-25	300

WILLIAMS, J. W., Member of Firm, Sutton Bros., Gen. Contrs.	616 Atlantic Nat. Bk. Bldg., Jacksonville, Fla.	C.E.	6-19-23	275
*WILLIAMSON, J. S., Div. Engr., S. C. State Highway Dept.	Columbia, S. C.	C.E.	3-22-23	229
*WILLIS, W. N., Civil and Consulting Engineer.	Cleveland Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	234
WILSON, H. S., Globe Automatic Sprinkler Co.	1004 Norris Bldg., Atlanta, Ga.	M.E.	7-12-27	319
WILSON, CHAS. C., Architect and Engineer.	Columbia Nat. Bank Bldg., Columbia, S. C.	C.E., L.S.	3-22-23	231
*WILSON, T. E., Engineer.	Darlington, S. C.	C.E., L.S.	12-5-22	62
WINTER, JAS. A., Land Surveyor, H. M. Holland & Co.	Anderson, S. C.	L.S.	3-22-23	227
WISWALD, HOWARD, Land Surveyor and Timber Estimator.	10 Watauga St., Asheville, N. C.	C.E., L.S.	3-22-23	253
WOLFE, LENAIRE, F., Edisto Construction Co.	Orangeburg, S. C.	C.E., L.S.	3-22-23	226
WRIGLEY, GEORGE, Charge of Elec. Dept., J. E. Sirrime & Co., Engrs.; Member State Board of Engineering Examiners.	Greenville, S. C.	M.E., E.E.	9-14-22	5
WYSE, F. C., Civil Engineer.	550 Poplar St., Spartanburg, S. C.	C.E., L.S.	7-10-28	325
**YOUNG, L. G., Civil Engineer.	Union, S. C.	C.E., L.S.	3-22-23	235

Deceased: B. R. Cowherd, Jr.; T. H. Hardin; Paul H. Norcross; H. C. Hightower; Arthur G. Boozer; Nisbet Wingfield; Adlai Osborne; H. G. Jones.

*Indicates that renewal fee, due June, 1929, has not been paid and registration has expired.

**Indicates that renewal fee, due June 1928 and 1929, has not been paid and registration is automatically revoked.

South Carolina Registration Law

Approved March 22, 1922; Amended March 10, 1928.

An Act Providing for the Creation and Establishment of a State Board of Engineering Examiners, Granting Certain Powers to and Prescribing the Duties of Said Board; Providing for the Examination and Registration Of Land Surveyors and Professional Engineers, Regulating the Practice of Engineering in the State of South Carolina and Providing Penalties for The Violation of This Act.

Section 1. That in order to safeguard life, health and property, any person practicing or offering to practice professional engineering or land surveying hereafter in this State shall be required to submit evidence that he or she is qualified so to practice, and shall be registered as hereafter provided; and that it shall be unlawful for any person to practice or to offer to practice professional engineering or land surveying in this State unless such person, has been duly registered as a professional engineer or land surveyor, or has been exempted from registration under the provisions of this Act. Provided, That the provisions of this Act shall not apply to land surveyors unless they desire to hold themselves out as "registered land surveyors."

Section 2. Under no circumstances shall the total amount of warrants issued by the State Auditor in payment of the expenses and compensations provided in this Act exceed the amount of the examination and registration fees collected as herein provided.

Section 3. As used in this Act:

(a) The "Board" means the State Board of Engineering Examiners provided for by this Act.

(b) "Surveyors." Any person who shall be engaged in locating, establishing or relocating any land boundary line between two or more land owners, or who shall be engaged in locating any United States Government, State, County, Township or Municipal land survey lines, or the lines of any public streets or roads, is hereby declared to be a Surveyor and as practicing land surveying within the provisions of this Act.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing Professional Engineering within the meaning of this Act. The practicing of professional engineering within meaning of this Act embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads, canals, harbors, river improvements, lighthouses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the development, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works and of other public or private utilities or works which require for their design or supervision of the construction such experience

and technical knowledge as are required in Section 8 of this Act. The execution as a contractor of works designed by a professional engineer or the supervision of the construction of such work as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this Act.

(d) "Engineer" means any person who practices professional engineering.

Section 4. There is hereby created a State Board of Engineering Examiners consisting of five members to be appointed by the Governor within sixty (60) days after the passage of this Act. Three members of the Board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the Board first appointed hereunder two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the Board for misconduct, incapacity or neglect of duty. Vacancies in the Board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the Board shall be a professional engineer of at least ten years active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding this appointment. Each member of said board except the members first appointed hereunder, shall also be registered as a professional engineer under this Act. The members of the Board shall receive as compensation, the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the Board and its committees, and each member shall receive all necessary expenses incident to the performance of his duties under this Act.

Section 5. Every member of the Board shall receive a certificate of his appointment from the Governor and before beginning his term of office shall file with the SECRETARY OF STATE his written oath for the faithful discharge of his official duty. Each member of the Board first appointed hereunder shall receive a certificate of registration under this Act from said Board. The Board shall adopt and have an official seal. The Board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-laws or rule by which more than a majority vote is required for any specified action by the Board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

Section 6. The Board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars conditioned for the faithful performance of his duties and for the accounting and paying over of all moneys received by him. The premium on said bond shall be paid from the fund of the Board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this Act, and shall pay to the State Treasurer, who shall keep such moneys in a separate fund, to be known as the Fund of the Board of Engineering Examiners, continued from year to year to be drawn against only for the expenses of the Board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State

Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the Board, *Provided*, however, that at no time shall the total amount of warrants exceed the total amount of fees paid under this Act. On or before the 30th day of June in each year the Board shall submit to the Governor a written report of its transactions for the preceding year, and shall file with the SECRETARY OF STATE a copy of said report, together with a complete statement of the receipts and expenditures of the Board, attested by the affidavits of the chairman and secretary, and a complete list of those registered under this Act, with their addresses and the dates of their certificates of registration. The Board shall hold at least two regular meetings in each year, special meetings may be called in such manner as the by-laws of the Board may provide. Notice of all meetings shall be given in such manner as the by-laws of the Board may provide. At all meetings a majority of the Board shall constitute a quorum.

Section 7. The Board shall have power to employ, during its pleasure such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this Act prescribed.

Section 8. The Board shall admit to examination any candidate who pays a fee of Fifteen (\$15.00) Dollars and submits evidence verified by oath and satisfactory to the Board that he

- (a) Is more than twenty-one (21) years of age.
- (b) Is of good character, and
- (c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work, as principal or assistant, for at least one year.
- (d) Or, in lieu of requirement (c) specified above, is a graduate from an engineering school.

(e) *Provided*, however, That no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date he is granted certificate of registration, or he will be deprived from further practicing his profession or calling as set forth in this Act.

Section 9. Examinations for registration shall be held at regular or special meetings of the Board at such times and at such places within the State in each year as the Board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the Board with special reference to the applicant's ability to design and supervise engineering works which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may be either oral or partly written. As soon as practicable after the close of each examination the members of the Board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the Board upon the application of each candidate, whereupon the Secretary of the Board shall notify each candidate of the result of his examination. A candidate failing on examination, may, after an interval of not less than one year, be examined again.

Section 10. In the case of examination as professional engineer, upon receipt of an additional fee of Ten (\$10.00) Dollars, the Board shall issue to any applicant who has been reported to have passed the examination conducted by the Board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by the

chairman and secretary of the Board under the seal of the Board, whereupon such applicant shall be authorized to practice professional engineering as defined by this Act. In case of examination as land surveyor the Board shall issue to any applicant who has been reported to have passed the examination conducted by the Board, a certificate of registration as a land surveyor, signed by the chairman and secretary of the Board under the seal of the Board, whereupon such applicant shall be authorized to practice land surveying as defined by this Act. A certificate of registration as a professional engineer shall not carry with it the right to practice land surveying unless it is specially permitted by said certificate, which permission shall be granted by the Board without additional fee in the case of any applicant duly qualified as prescribed by the rules of the Board.

Section 11. At any time within one year after this Act has become effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars the Board shall issue a certificate of registration, as provided by Section 10, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the Board that he is of good character, has been a resident of the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this Act shall have been in effect one year, the Board shall issue certificates of registration only as provided in Sections 5, 10 and 11 hereof.

Section 12. The Board shall, from time to time examine the requirements for the registration of professional engineers in other States, territories and countries and shall record those in which, in the judgment of the Board, standards not lower than those provided by this Act are maintained. The Secretary of the Board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such State, territory, or country as recorded and upon receipt by him of a fee of Twenty-five (\$25.00) Dollars shall issue to such person a certificate of registration under this Act, signed by the Chairman and Secretary under the seal of the Board whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the Board.

Section 13. It shall be the duty of the Board to inquire into the identity of any person practicing or claiming to be a land surveyor, or professional engineer. The Board shall have the power by four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the Secretary of the Board written charges against the accused. The Board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witness or to produce witnesses in his defense. The Board may summons witnesses and administer oaths. It shall be the duty of the Board to prosecute any persons violating the provisions of this Act.

Section 14. Every certified professional engineer so registered under this Act who desires to continue the practice of his profession shall annually pay to the Secretary of the Board a fee of Five (\$5.00) Dollars

on or before a date to be fixed by the Board, for which fee a renewal certificate of registration for the current year shall be issued.

Section 14-A. Every land surveyor so registered under this Act who desires to continue the practice of his profession shall annually pay to the Secretary of the Board a fee of Three (\$3.00) Dollars on or before a date to be fixed by the Board, for which fee a renewal certificate of registration for the current year shall be issued.

Section 15. An unrevoked certificate and endorsement of registry made as provided in this Act shall be presumptive evidence in all courts and places that the person named therein is legally registered.

Section 16. The provisions of the Act shall apply to every corporation domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except that certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

Section 17. The Board each year shall certify and publish a complete list of registered professional engineers and land surveyors with their business addresses.

Section 17-A. Nothing contained in this Act shall apply to land surveyors who shall have been engaged in the active practice of their profession as land surveyors as long as five years prior to the date hereof, but such surveyors may obtain registration upon voluntary compliance with the terms of this Act.

Section 18. Any person who, not being then legally authorized to practice professional engineering or land surveying within the State according to the provisions of this Act and so registered according to law, shall practice, or attempt or advertise to practice, or holding himself out as authorized to practice professional engineering or land surveying or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor, shall be deemed guilty of a misdemeanor and shall for each offence of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars or by imprisonment not to exceed three months, or both such fine and imprisonment.

Section 19. This Act shall not apply to military engineering nor to any professional engineer working for the United States Government, nor to employees of railroads nor inter-state public service corporations. Nor to any professional engineer employed as an advisor or an assistant to a professional engineer registered under this Act; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the Board, shall have elapsed to permit the registration of such person under this Act, *Provided*, That before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this Act.

Section 20. This Act shall not apply to any architect registered by the State of South Carolina under the provisions of the Act creating the State Board of Architecture.

Section 21. Persons licensed to practice professional engineering in this State under this Act shall be exempt from the provision of any Act providing for the licensing of architects or regulating the practice of architecture in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in Section 3 of this Act.

Section 22. All laws or parts of laws in conflict with the provisions of this Act be and the same are hereby repealed.

Section 23. This Act shall take effect immediately upon its passage and approval by the Governor.

Approved the 22nd day of March, A. D., 1922.

R. A. COOPER, Governor.

Amending Act Approved the 10th day of March, A.D., 1928.

JOHN G. RICHARDS, Governor.

National Council of State Boards of Engineering Examiners

ARTICLES OF AGREEMENT ON RECIPROCAL REGISTRATION

Article 1. Reciprocal registration as provided for in these Articles of Agreement shall be granted only to an applicant who is already registered in some state which is a member of this Council. A detailed professional record, properly attested, and accompanied by references as to character and qualification from three registered practicing engineers shall be filed with the applicant's board of examiners. Qualification for reciprocal registration shall be determined upon the basis of such professional record thorough consideration of which shall constitute examination.

Article 2. Engineering experience gained by the applicant prior to his reaching the age of eighteen years shall not be counted as a part of his professional experience.

Article 3. Professional experience shall be considered as beginning when the candidate has entered upon a position in professional engineering work which requires original thought and responsibility. For example:

(a) In the field experience shall begin to count when the applicant reaches a position of responsibility equivalent to that of actual transitman.

(b) In the shop or laboratory experience shall begin to count only after apprenticeship, foremanship, inspectorship or other subordinate positions unless the work done specifically shows that the applicant possesses originality of design and has had responsibility in his subordinate positions.

(c) In the office or drafting room experience shall begin to count when the applicant ceases to do merely tracing, lettering, or purely mechanical work requiring for its performance merely manual dexterity, and enters a position of responsibility where he begins actual design.

(d) Experience in the teaching of engineering shall begin to count when the applicant is a full-time instructor in engineering in an engineering school of recognized standing and each year of teaching shall be considered equivalent to one year of practice.

Article 4. The applicant shall have had ten years of experience in professional engineering, and in addition shall show that he is qualified to design as well as to direct engineering operations, as evidence of qualification for reciprocal registration, and his experience record shall show progressive advancement in the character of the work performed.

Each case shall be considered on its merits, and the experience record must be given in such complete detail that the board of examiners can determine the character of work performed by the applicant.

Article 5. Graduation from an engineering school of recognized standing shall be accepted as the equivalent of four years of such practice.

An engineering school of recognized standing shall be one which requires the equivalent of a high school or preparatory school diploma as an entrance requirement and demands the equivalent of a four years' course in engineering for graduation.

Article 6. Making reciprocal registration operative between the states shall be done by means of certification from one state to another of the applicant's qualifications. This certification shall be by means of a card

or form bearing the date, serial number and signatures of the officers and the seal of the board of the state issuing same. This card is to be printed and distributed by the Council of State Boards of Engineering Examiners.

Article 7. Whenever an applicant applies to his own state board for reciprocal registration, if his qualifications fully comply with the standard herein provided, he shall be granted the same.

(Note: The Council has by resolution interpreted "that he may be granted a reciprocal card by the state in which he was first registered, provided the state of which he is a resident does not have a law providing for the registration of engineers.")

Article 8. The aforesaid reciprocal registration certificate shall be *prima facie* evidence of qualification for registration in any state that is a member of this Council and that has subscribed to these Articles of Agreement. When such reciprocal registration certificate is presented, together with the legal fee required and such information (other than evidence of qualification) as may be requested for the records of the board to which the application is made, such board shall issue a registration certificate to the applicant.

Article 9. Any reciprocal certificate may be revoked by the state issuing same upon presentation to its board of examiners of good and sufficient evidence of incompetency, or proof that the applicant's character warrants such revocation.

Article 10. Should any question or disagreements in the interpretation of these Articles arise, such questions shall be referred to the Council for action at its next regular meeting, or if more expeditious action shall be necessary, they may be acted upon by the Council by letter ballot.

If action is taken by letter ballot, such action shall be conducted through the office of the Secretary of the Council in the customary manner; and the votes shall be counted not later than sixty days after forwarding from his office, by registered mail, of questions at issue. The Secretary of the Council shall thereupon immediately certify to the various member boards the roll call and results of the vote, and the determination of the questions at issue; and consequent actions shall be in accordance with the majority of the votes recorded.